

# SEQUENCE LISTING

<110> Ibanez, Carlos F.  
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 Trupp, Miles  
 Saarma, Mart

<120> Glial Cell Line-Derived Neurotropic Factor Receptors

<130> CEPH0418

<140> 08/861,990

<141> 1997-05-22

<150> 08/747,842

<151> 1996-11-13

<150> 60/006,619

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<150> 60/015,767

<151> 1996-04-16

<150> 60/021,965

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<150> 60/020,638

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<170> PatentIn Ver. 2.1

<210> 1

<211> 468

<212> PRT

<213> Rattus.sp.

<400> 1

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275	280	285
Tyr Ser Gly Leu Ile Gly Thr Val Met Thr Pro Asn Tyr Val Asp Ser		
290	295	300
Ser Ser Leu Ser Val Ala Pro Trp Cys Asp Cys Ser Asn Ser Gly Asn		
305	310	315 320
Asp Leu Glu Asp Cys Leu Lys Phe Leu Asn Phe Phe Lys Asp Asn Thr		
	325	330 335
Cys Leu Lys Asn Ala Ile Gln Ala Phe Gly Asn Gly Ser Asp Val Thr		
	340	345 350
Met Trp Gln Pro Ala Pro Pro Val Gln Thr Thr Thr Ala Thr Thr Thr		
	355	360 365
Thr Ala Phe Arg Val Lys Asn Lys Pro Leu Gly Pro Ala Gly Ser Glu		
	370	375 380
Asn Glu Ile Pro Thr His Val Leu Pro Pro Cys Ala Asn Leu Gln Ala		
	385	390 395 400
Gln Lys Leu Lys Ser Asn Val Ser Gly Ser Thr His Leu Cys Leu Ser		
	405	410 415
Asp Ser Asp Phe Gly Lys Asp Gly Leu Ala Gly Ala Ser Ser His Ile		
	420	425 430
Thr Thr Lys Ser Met Ala Ala Pro Pro Ser Cys Ser Leu Ser Ser Leu		
	435	440 445
Pro Val Leu Met Leu Thr Ala Leu Ala Ala Leu Leu Ser Val Ser Leu		
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Ala Glu Thr Ser		
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<210> 2  
 <211> 464  
 <212> PRT  
 <213> Rattus sp.

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 Gly Trp Arg Pro Gln Val Asp Cys Val Arg Ala Asn Glu Leu Cys Ala  
 35 40 45  
 Ala Glu Ser Asn Cys Ser Ser Arg Tyr Arg Thr Leu Arg Gln Cys Leu  
 50 55 60  
 Ala Gly Arg Asp Arg Asn Thr Met Leu Ala Asn Lys Glu Cys Gln Ala  
 65 70 75 80  
 Ala Leu Glu Val Leu Gln Glu Ser Pro Leu Tyr Asp Cys Arg Cys Lys  
 85 90 95  
 Arg Gly Met Lys Lys Glu Leu Gln Cys Leu Gln Ile Tyr Trp Ser Ile  
 100 105 110  
 His Leu Gly Leu Thr Glu Gly Glu Glu Phe Tyr Glu Ala Ser Pro Tyr  
 115 120 125  
 Glu Pro Val Thr Ser Arg Leu Ser Asp Ile Phe Arg Leu Ala Ser Ile  
 130 135 140  
 Phe Ser Gly Thr Gly Thr Asp Pro Ala Val Ser Thr Lys Ser Asn His  
 145 150 155 160  
 Cys Leu Asp Ala Ala Lys Ala Cys Asn Leu Asn Asp Asn Cys Lys Lys  
 165 170 175  
 Leu Arg Ser Ser Tyr Ile Ser Ile Cys Asn Arg Glu Ile Ser Pro Thr  
 180 185 190  
 Glu Arg Cys Asn Arg Arg Lys Cys His Lys Ala Leu Arg Gln Phe Phe  
 195 200 205  
 Asp Arg Val Pro Ser Glu Tyr Thr Tyr Arg Met Leu Phe Cys Ser Cys  
 210 215 220  
 Gln Asp Gln Ala Cys Ala Glu Arg Arg Arg Gln Thr Ile Leu Pro Ser  
 225 230 235 240  
 Cys Ser Tyr Glu Asp Lys Glu Lys Pro Asn Cys Leu Asp Leu Arg Ser  
 245 250 255  
 Leu Cys Arg Thr Asp His Leu Cys Arg Ser Arg Leu Ala Asp Phe His  
 260 265 270

Ala	Asn	Cys	Arg	Ala	Ser	Tyr	Arg	Thr	Ile	Thr	Ser	Cys	Pro	Ala	Asp	275	280	285
Asn	Tyr	Gln	Ala	Cys	Leu	Gly	Ser	Tyr	Ala	Gly	Met	Ile	Gly	Phe	Asp	290	295	300
Met	Thr	Pro	Asn	Tyr	Val	Asp	Ser	Asn	Pro	Thr	Gly	Ile	Val	Val	Ser	305	310	315
Pro	Trp	Cys	Asn	Cys	Arg	Gly	Ser	Gly	Asn	Met	Glu	Glu	Glu	Cys	Glu	325	330	335
Lys	Phe	Leu	Arg	Asp	Phe	Thr	Glu	Asn	Pro	Cys	Leu	Arg	Asn	Ala	Ile	340	345	350
Gln	Ala	Phe	Gly	Asn	Gly	Thr	Asp	Val	Asn	Met	Ser	Pro	Lys	Gly	Pro	355	360	365
Ser	Leu	Pro	Ala	Thr	Gln	Ala	Pro	Arg	Val	Glu	Lys	Thr	Pro	Ser	Leu	370	375	380
Pro	Asp	Asp	Leu	Ser	Asp	Ser	Thr	Ser	Leu	Gly	Thr	Ser	Val	Ile	Thr	385	390	395
Thr	Cys	Thr	Ser	Ile	Gln	Glu	Gln	Gly	Leu	Lys	Ala	Asn	Asn	Ser	Lys	405	410	415
Glu	Leu	Ser	Met	Cys	Phe	Thr	Glu	Leu	Thr	Thr	Asn	Ile	Ser	Pro	Gly	420	425	430
Ser	Lys	Lys	Val	Ile	Lys	Leu	Asn	Ser	Gly	Ser	Ser	Arg	Ala	Arg	Leu	435	440	445
Ser	Ala	Ala	Leu	Thr	Ala	Leu	Pro	Leu	Leu	Met	Leu	Thr	Leu	Ala	Leu	450	455	460

<210> 3

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

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28

<210> 4  
<211> 27  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer

<400> 4  
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27

<210> 5  
<211> 1414  
<212> DNA  
<213> Rattus sp.

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gtccgggcca atgagctgtg tgcggctgaa tccaactgca gctccaggta ccgcaccctt 180  
cggcagtgcc tggcaggccg ggatcgcaat accatgctgg ccaataagga gtgccaggca 240  
gccctggagg tcttgcaagg aagcccactg tatgactgcc gctgcaagcg gggcatgaag 300  
aaggagctgc agtgtctgca gatctactgg agcatccatc tggggctgac agaggggtgag 360  
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ctcgttcaat tcttctcagg gacagggaca gaccggcgag tcagtaccaa aagcaaccac 480  
tgcttgatg ccgccaaggc ctgcaacctg aatgacaact gcaagaagct tcgctcctct 540  
tatacttcca tctgcaaccg tgagatctct tgagatctct cccaccgaac gctgcaaccg 600  
cacaaggctc tgcgccagtt ctttgaccgt gtgccagcg agtataccta ccgcatgctc 660  
ttctgctcct gtcaggacca ggcatgtgct gagcgtcgcg ggcaaaccat cctgcccagt 720  
tgctcctatg aggacaagga gaagcccaac tgcttgacc tgcgcagcct gtgtcgtaca 780  
gaccacctgt gccggtcccg actggcagat ttccacgcca actgtcgagc ctcctaccgg 840  
acaatcacca gtctgctctg ggacaactac caggcatgtc tgggctccta tgctggcatg 900  
attgggtttg atatgacacc caactatgtg gactccaacc ccacgggcat cgtggtgtct 960  
ccctggtgca attgtcgtgg cagtgggaac atggaagaag agtgtgagaa gttcctcagg 1020  
gacttcacgg aaaacccatg cctccggaat gccattcagg cctttggtaa tggcacagat 1080  
gtgaacatgt ctcccaaagg cccctcactc ccagctaccc aggcccctcg ggtggagaag 1140  
actccttcac tgccagatga cctcagtgc agcaccagcc tggggaccag tgctcatcacc 1200  
acctgcacat ctatccagga gcaagggctg aaggccaaca actccaaaga gtttaagcatg 1260  
tgcttcacag agctcacgac aaacatcagt ccaggaggta aaaaggtgat caaacttaac 1320  
tcaggctcca gcagagccag actgtcggct gccttgactg ccctcccact cctgatgctg 1380  
accttggcct tgtaggcctt tggaaaccag caca 1414

<210> 6  
<211> 23  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer

<400> 6  
atgatcttgg caaacgcctt ctg 23

<210> 7  
<211> 22  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer

<400> 7  
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<210> 8  
<211> 465  
<212> PRT  
<213> Homo sapiens

<400> 8  
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20 25 30  
Ser Asp Gln Cys Leu Lys Glu Gln Ser Cys Ser Thr Lys Tyr Arg Thr  
35 40 45  
Leu Arg Gln Cys Val Ala Gly Lys Glu Thr Asn Phe Ser Leu Ala Ser  
50 55 60  
Gly Leu Glu Ala Lys Asp Glu Cys Arg Ser Ala Met Glu Ala Leu Lys  
65 70 75 80  
Gln Lys Ser Leu Tyr Asn Cys Arg Cys Lys Arg Gly Met Lys Lys Glu  
85 90 95

Lys Asn Cys Leu Arg Ile Tyr Trp Ser Met Tyr Gln Ser Leu Gln Gly  
 100 105 110  
 Asn Asp Leu Leu Glu Asp Ser Pro Tyr Glu Pro Val Asn Ser Arg Leu  
 115 120 125  
 Ser Asp Ile Phe Arg Val Val Pro Phe Ile Ser Asp Val Phe Gln Gln  
 130 135 140  
 Val Glu His Ile Pro Lys Gly Asn Asn Cys Leu Asp Ala Ala Lys Ala  
 145 150 155 160  
 Cys Asn Leu Asp Asp Ile Cys Lys Lys Tyr Arg Ser Ala Tyr Ile Thr  
 165 170 175  
 Pro Cys Thr Thr Ser Val Ser Asn Asp Val Cys Asn Arg Arg Lys Cys  
 180 185 190  
 His Lys Ala Leu Arg Gln Phe Phe Asp Lys Val Pro Ala Lys His Ser  
 195 200 205  
 Tyr Gly Met Leu Phe Cys Ser Cys Arg Asp Ile Ala Cys Thr Glu Arg  
 210 215 220  
 Arg Arg Gln Thr Ile Val Pro Val Cys Ser Tyr Glu Glu Arg Glu Lys  
 225 230 235 240  
 Pro Asn Cys Leu Asn Leu Gln Asp Ser Cys Lys Thr Asn Tyr Ile Cys  
 245 250 255  
 Arg Ser Arg Leu Ala Asp Phe Phe Thr Asn Cys Gln Pro Glu Ser Arg  
 260 265 270  
 Ser Val Ser Ser Cys Leu Lys Glu Asn Tyr Ala Asp Cys Leu Leu Ala  
 275 280 285  
 Tyr Ser Gly Leu Ile Gly Thr Val Met Thr Pro Asn Tyr Ile Asp Ser  
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 Ser Ser Leu Ser Val Ala Pro Trp Cys Asp Cys Ser Asn Ser Gly Asn  
 305 310 315 320  
 Asp Leu Glu Glu Cys Leu Lys Phe Leu Asn Phe Phe Lys Asp Asn Thr  
 325 330 335  
 Cys Leu Lys Asn Ala Ile Gln Ala Phe Gly Asn Gly Ser Asp Val Thr  
 340 345 350



Val Trp Gln Pro Ala Phe Pro Val Gln Thr Thr Thr Ala Thr Thr Thr  
 355 360 365  
 Thr Ala Leu Arg Val Lys Asn Lys Pro Leu Gly Pro Ala Gly Ser Glu  
 370 375 380  
 Asn Glu Ile Pro Thr His Val Leu Pro Pro Cys Ala Asn Leu Gln Ala  
 385 390 395 400  
 Gln Lys Leu Lys Ser Asn Val Ser Gly Asn Thr His Leu Cys Ile Ser  
 405 410 415  
 Asn Gly Asn Tyr Glu Lys Glu Gly Leu Gly Ala Ser Ser His Ile Thr  
 420 425 430  
 Thr Lys Ser Met Ala Ala Pro Pro Ser Cys Gly Leu Ser Pro Leu Leu  
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 Val Arg Val Val Thr Ala Leu Ser Thr Leu Leu Ser Leu Thr Glu Thr  
 450 455 460  
 Ser  
 465

<210> 9  
 <211> 464  
 <212> PRT  
 <213> Homo sapiens

<400> 9  
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 20 25 30  
 Gly Trp Arg Pro Pro Val Asp Cys Val Arg Ala Asn Glu Leu Cys Ala  
 35 40 45  
 Ala Glu Ser Asn Cys Ser Ser Arg Tyr Arg Thr Leu Arg Gln Cys Leu  
 50 55 60  
 Ala Gly Arg Asp Arg Asn Thr Met Leu Ala Asn Lys Glu Cys Gln Ala  
 65 70 75 80  
 Ala Leu Glu Val Leu Gln Glu Ser Pro Leu Tyr Asp Cys Arg Cys Lys  
 85 90 95

Arg Gly Met Lys Lys Glu Leu Gln Cys Leu Gln Ile Tyr Trp Ser Ile  
 100 105 110  
 His Leu Gly Leu Thr Glu Gly Glu Glu Phe Tyr Glu Ala Ser Pro Tyr  
 115 120 125  
 Glu Pro Val Thr Ser Arg Leu Ser Asp Ile Phe Arg Leu Ala Ser Ile  
 130 135 140  
 Phe Ser Gly Thr Gly Ala Asp Pro Val Val Ser Ala Lys Ser Asn His  
 145 150 155 160  
 Cys Leu Asp Ala Ala Lys Ala Cys Asn Leu Asn Asp Asn Cys Lys Lys  
 165 170 175  
 Leu Arg Ser Ser Tyr Ile Ser Ile Cys Asn Arg Glu Ile Ser Pro Thr  
 180 185 190  
 Glu Arg Cys Asn Arg Arg Lys Cys His Lys Ala Leu Arg Gln Phe Phe  
 195 200 205  
 Asp Arg Val Pro Ser Glu Tyr Thr Tyr Arg Met Leu Phe Cys Ser Cys  
 210 215 220  
 Gln Asp Gln Ala Cys Ala Glu Arg Arg Arg Gln Thr Ile Leu Pro Ser  
 225 230 235 240  
 Cys Ser Tyr Glu Asp Lys Glu Lys Pro Asn Cys Leu Asp Leu Arg Gly  
 245 250 255  
 Val Cys Arg Thr Asp His Leu Cys Arg Ser Arg Leu Ala Asp Phe His  
 260 265 270  
 Ala Asn Cys Arg Ala Ser Tyr Gln Thr Val Thr Ser Cys Pro Ala Asp  
 275 280 285  
 Asn Tyr Gln Ala Cys Leu Gly Ser Tyr Ala Gly Met Ile Gly Phe Asp  
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 Met Thr Pro Asn Tyr Val Asp Ser Ser Pro Thr Gly Ile Val Val Ser  
 305 310 315 320  
 Pro Trp Cys Ser Cys Arg Gly Ser Gly Asn Met Glu Glu Glu Cys Glu  
 325 330 335  
 Lys Phe Leu Arg Asp Phe Thr Glu Asn Pro Cys Leu Arg Asn Ala Ile  
 340 345 350

Gln Ala Phe Gly Asn Gly Thr Asp Val Asn Val Ser Pro Lys Gly Pro  
 355 360 365  
 Ser Phe Gln Ala Thr Gln Ala Pro Arg Val Glu Lys Thr Pro Ser Leu  
 370 375 380  
 Pro Asp Asp Leu Ser Asp Ser Thr Ser Leu Gly Thr Ser Val Ile Thr  
 385 390 395 400  
 Thr Cys Thr Ser Val Gln Glu Gln Gly Leu Lys Ala Asn Asn Ser Lys  
 405 410 415  
 Glu Leu Ser Met Cys Phe Thr Glu Leu Thr Thr Asn Ile Ile Pro Gly  
 420 425 430  
 Ser Asn Lys Val Ile Lys Pro Asn Ser Gly Pro Ser Arg Ala Arg Pro  
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 Ser Ala Ala Leu Thr Val Leu Ser Val Leu Met Leu Lys Gln Ala Leu  
 450 455 460

<210> 10  
 <211> 1490  
 <212> DNA  
 <213> Homo sapiens

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 gtccgggcca atgagctgtg tgccgccgaa tccaactgca gctctcgcta ccgcaactctg 180  
 cggcagtgcc tggcaggccg cgaccgcaac accatgctgg ccaacaagga gtgccaggcg 240  
 gccttgaggg tcttgcaagg gagcccgtg tacgactgcc gctgcaagcg gggcatgaag 300  
 aaggagctgc agtgtctgca gatctactgg agcatccacc tggggctgac cgagggtgag 360  
 gagttctacg aagcctcccc ctatgagccg gtgacctccc gcctctcgga catcttcagg 420  
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 tacatctcca tctgcaaccg cgagatctcg cccaccgagc gctgcaaccg ccgcaagtgc 600  
 cacaaggccc tgcgccagtt ctgcgaccgg gtgcccagcg agtacaccta ccgcatgctc 660  
 ttctgtctct gccaaagacca ggcgtgcgct gagcgccgcc ggcaaaccat cctgcccagc 720  
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 gaccacctgt gtcgggtccc gctggccgac ttccatgcca attgtcgagc ctctaccag 840  
 acggtcacca gctgccctgc ggacaattac caggcgtgtc tgggctctta tgctggcatg 900  
 attgggtttg acatgacacc taactatgtg gactccagcc cactggcat cgtggtgtcc 960

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acctgcacgt ctgtccagga gcaggggctg aaggccaaca actccaaaga gttaagcatg 1260
tgcttcacag agctcacgac aaatatcatc ccaggagta acaaggtgat caaacctaac 1320
tcaggcccca gcagagccag accgtcggct gccttgaccg tgctgtctgt cctgatgctg 1380
aaacaggcct tgtaggctgt gggaaccgag tcagaagatt tttgaaacta cgcagacaag 1440
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<210> 11

<211> 445

<212> PRT

<213> Rattus sp.

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             20             25             30

Gly Trp Arg Pro Gln Val Asp Cys Val Arg Ala Asn Glu Leu Cys Ala
             35             40             45

Ala Glu Ser Asn Cys Ser Ser Arg Tyr Arg Thr Leu Arg Gln Cys Leu
             50             55             60

Ala Gly Arg Asp Arg Asn Thr Met Leu Ala Asn Lys Glu Cys Gln Ala
             65             70             75             80

Ala Leu Glu Val Leu Gln Glu Ser Pro Leu Tyr Asp Cys Arg Cys Lys
             85             90             95

Arg Gly Met Lys Lys Glu Leu Gln Cys Leu Gln Ile Tyr Trp Ser Ile
             100            105            110

His Leu Gly Leu Thr Glu Gly Glu Glu Phe Tyr Glu Ala Ser Pro Tyr
             115            120            125

Glu Pro Val Thr Ser Arg Leu Ser Asp Ile Phe Arg Leu Ala Ser Ile
             130            135            140

Phe Ser Gly Thr Gly Thr Asp Pro Ala Val Ser Thr Lys Ser Asn His
             145            150            155            160

Cys Leu Asp Ala Ala Lys Ala Cys Asn Leu Asn Asp Asn Cys Lys Lys

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165	170	175
Leu Arg Ser Ser Tyr Ile Ser Ile Cys Asn Arg Glu Ile Ser Pro Thr		
180	185	190
Glu Arg Cys Asn Arg Arg Lys Cys His Lys Ala Leu Arg Gln Phe Phe		
195	200	205
Asp Arg Val Pro Ser Glu Tyr Thr Tyr Arg Met Leu Phe Cys Ser Cys		
210	215	220
Gln Asp Gln Ala Cys Ala Glu Arg Arg Arg Gln Thr Ile Leu Pro Ser		
225	230	235
Cys Ser Tyr Glu Asp Lys Glu Lys Pro Asn Cys Leu Asp Leu Arg Ser		
245	250	255
Leu Cys Arg Thr Asp His Leu Cys Arg Ser Arg Leu Ala Asp Phe His		
260	265	270
Ala Asn Cys Arg Ala Ser Tyr Arg Thr Ile Thr Ser Cys Pro Ala Asp		
275	280	285
Asn Tyr Gln Ala Cys Leu Gly Ser Tyr Ala Gly Met Ile Gly Phe Asp		
290	295	300
Met Thr Pro Asn Tyr Val Asp Ser Asn Pro Thr Gly Ile Val Val Ser		
305	310	315
Pro Trp Cys Asn Cys Arg Gly Ser Gly Asn Met Glu Glu Glu Cys Glu		
325	330	335
Lys Phe Leu Arg Asp Phe Thr Glu Asn Pro Cys Leu Arg Asn Ala Ile		
340	345	350
Gln Ala Phe Gly Asn Gly Thr Asp Val Asn Met Ser Pro Lys Gly Pro		
355	360	365
Ser Leu Pro Ala Thr Gln Ala Pro Arg Val Glu Lys Thr Pro Ser Leu		
370	375	380
Pro Asp Asp Leu Ser Asp Ser Thr Ser Leu Gly Thr Ser Val Ile Thr		
385	390	395
Thr Cys Thr Ser Ile Gln Glu Gln Gly Leu Lys Ala Asn Asn Ser Lys		
405	410	415
Glu Leu Ser Met Cys Phe Thr Glu Leu Thr Thr Asn Ile Ser Pro Gly		

			420					425						430
Ser	Lys	Lys	Val	Ile	Lys	Leu	Asn	Ser	Gly	Ser	Ser	Leu		
		435					440						445	